Earth Leakage Circuit Breakers

Metasol 30AF to 250AF Series

Frame Size (AF)			30		50		
Туре			S-Type	N-Type	S-Type	H-Type	
Type and pole		2-pole	EBS32c	EBN52c	-	-	
		3-pole	EBS33c	EBN53c	EBS53c	EBH53c	
		4-pole	EBS34c	-	EBS54c	EBH54c	
Protective function			Overload, Short-circuit and ground fault	Overload, Short-circuit and ground fault		Overload, Short-circuit and ground fault	
Rated current, In		(A)	(5, 10) Note 2), 15, 20, 30	15, 20, 3	0, 40, 50	15, 20, 30, 40, 50	
Rated impulse withstand v	oltage, Uimp	(kV)	6	6	3	6	
Instantaneous type	Rated residual current, I△n	(mA)	30, 100, 100/200/500 100/300/500	30, 100, 100/200/500, 100/300/500		30, 100, 100/200/500 100/300/500	
	Residual current off-time at I△n	sec	≤ 0.1	≤ 0.1		≤ 0.1	
	Rated operational voltage, Ue	AC (V)	220/460	220/	460	220/460	
Time delay type	Rated residual current	1A	0.1/0.2/0.5/1	0.1/0.2	2/0.5/1	0.1/0.2/0.5/1	
	Intentional time delay	1s	0/0.2/0.5/1	0/0.2/0.5/1		0/0.2/0.5/1	
	Rated residual current	2A	0.1/0.4/1/2	0.1/0.4/1/2		0.1/0.4/1/2	
	Intentional time delay	2s	0.5/1/1.5/2	0.5/1/1.5/2		0.5/1/1.5/2	
Rated short-circuit break	ing capacity (Icu) kA (Sym), KSC832	21, IEC 60947-	2				
AC		460V	14 (10)	14	18	50	
		415V	14 (10)	14	18	50	
		220/250V	30 (25)	30	35	100	
Service breaking capacity	/(%lcu), lcs		100	100	100	100	
Category of use			А	А	А	А	
Endurance	Mechanical		25,000	25,000	25,000	25,000	
(Number of operations)	Electrical		10,000	10,000	10,000	10,000	
Type of trip unit							
Overcurrent pick-up			Thermal-magnetic	Thermal-magnetic			
Earth leakage pick-up		Electronic	Electronic				
Accessories							
Electrical auxiliaries	Auxiliary switch		•	•	•	•	
	Alarm switch		•	•	•	•	
External accessories	Insulation barrier		•	•	•	•	
	Terminal cover (Long)		•	•	•	•	
	Terminal cover (Short)		•	•	•	•	
	Rotary handle (Direct)		•	•	•	•	
	Rotary handle (Direct, Key lock)		•	•	•	•	
	Rotary handle (Extended)		•	•	•	•	
Rear terminal (Bar) Rear terminal (Round)						•	
			•	•	•	•	
	Pad handle lock		•	•	•	•	
Dimensions (mm)	W×H×D (3P)		75×130×60	75×130×60		90×155×60	
Weight(kg)	2 pole		-	0.5	-	-	
5 (5,	3 pole		0.7	0.7	0.7	1	
	4 pole		0.9	-	0.9	1.2	

Note) 1. • applicable or available
2. The short-circuit breaking capacities in () are applied to the rated current in (5, 10A)













60		100	125		250		
N-Type	S-Type	N-Type	S-Type	H-Type	N-Type	S-Type	H-Type
-	-	EBN102c	-	-	EBN202c	-	-
EBN63c	EBS63c	EBN103c	EBS103c	EBH103c	EBN203c	EBS203c	EBH203c
-	EBS64c	EBN104c	EBS104c	EBH104c	-	EBS204c	EBH204c
Overload, Short-circuit and ground fault		Overload, Short-circuit and ground fault			Overload, Short-circu and ground fault		
6	0	60, 75, 100	15, 20, 30, 40, 50	, 60, 75, 100, 125	100, 125, 150, 175, 200, 225, 250		
6	6	6		6	6		
30, 100, 10 100/30		30, 100, 100/200/500, 100/300/500			30, 100, 100/200/500 100/300/500		
≤ ().1	≤ 0.1	≤ (0.1	≤ 0.1		
220/	/460	220/460	220	/460	220/460		
0.1/0.2	2/0.5/1	0.1/0.2/0.5/1	0.1/0.2	2/0.5/1		0.1/0.2/0.5/1	
0/0.2/	/0.5/1	0/0.2/0.5/1	0/0.2	/0.5/1		0/0.2/0.5/1	
0.1/0.	0.1/0.4/1/2		0.1/0.4/1/2			0.1/0.4/1/2	
0.5/1/	/1.5/2	0.5/1/1.5/2	0.5/1	/1.5/2		0.5/1/1.5/2	
14	18	18	37	50	26	37	50
14	18	18	37	50	26	37	50
30	35	35	85	100	65	85	100
100	100	100	100	100	100	100	100
А	А	А	А	А	А	А	Α
25,000	25,000	25,000	25,000	25,000	20,000	20,000	20,000
10,000	10,000	10,000	10,000	10,000	5,000	5,000	5,000
Thermal-magnetic		Thermal-magnetic	Thermal-	Thermal-magnetic Thermal-magnetic			
Electronic		Electronic	Elect	tronic			
•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•
75×130×60		75×130×60	60 90×155×60		105×165×60		
-	-	0.5	-	-	1.1	-	-
0.7	0.7	0.7	1	1	1.2	1.2	1.2
-	0.9	0.9	1.2	1.2	-	1.5	1.5

Earth Leakage Circuit Breakers

Metasol 400AF to 1200AF Series

Frame Size (AF)			400				
Туре			N-Type	S-Type	H-Type	L-Type	
Type and pole		3-pole	EBN403c	EBS403c	EBH403c	EBL403c	
		4-pole	EBN404c	EBS404c	EBH404c	EBL404c	
Protective function			Overload, Short-circuit and ground fault				
Rated current, In		(A)	250, 300, 350, 400				
Rated impulse withstand vo	oltage, Uimp	(kV)		(6		
Rated operational voltage	, Ue	AC (V)	220/460				
Instantaneous type	Rated residual current, I△n	(mA)	30, 100/200/500				
	Residual current off-time at I△n	sec	≤ 0.1	≤ 0.1	≤ 0.1	≤ 0.1	
Time delay type	Rated residual current	А	0.1/0.4/1/2	0.1/0.4/1/2	0.1/0.4/1/2	0.1/0.4/1/2	
	Intentional time delay	S	0.5/1/1.5/2	0.5/1/1.5/2	0.5/1/1.5/2	0.5/1/1.5/2	
Rated short-circuit breakir	ng capacity (Icu) kA (Sym), KSC832	1, IEC 60947-2	2				
AC		415/460V	37	50	65	85	
		220/250V	50	75	85	125	
Service breaking capacity((%lcu), lcs		100	100	100	100	
Category of use			А	А	А	А	
Endurance	Mechanical		4,000	4,000	4,000	4,000	
(Number of operations)	Electrical		1,000	1,000	1,000	1,000	
Type of trip unit							
Overcurrent pick-up				Thermal-	magnetic		
Earth leakage pick-up			Electronic				
Accessories							
Electrical auxiliaries	Auxiliary switch		•	•	•	•	
	Alarm switch		•	•	•	•	
	Shunt trip		•	•	•	•	
	Undervoltage trip		•	•	•	•	
External accessories	Insulation barrier		•	•	•	•	
	Terminal cover (Long) - 2, 3 pole		•	•	•	•	
	Terminal cover (Long) - 4 pole		•	•	•	•	
	Rotary handle (Direct)		•	•	•	•	
	Rotary handle (Extended)		•	•	•	•	
	Mechanical interlock - 2, 3 pole		•	•	•	•	
	Mechanical interlock - 4 pole		•	•	•	•	
	Rear terminal - 2 pole		•	•	•	•	
Rear terminal - 3 pole Rear terminal - 4 pole			•	•	•	•	
			•	•	•	•	
Dimensions (mm)	W×H×D (3P)		140×257×109			1	
Weight(kg)	3 pole		7	7	7	7	
	4 pole		8.4	8.4	7	7	

Note) 1. • applicable or available









800			1000	1200
N-Type	S-Type	L-Type	S-Type	S-Type
EBN803c	EBS803c	EBL803c	EBS1003b	EBS1203b
-	-	-	-	-
Ove	erload, Short-circuit and ground	Overload, Short-circ	uit and Ground fault	
	500, 630, 700, 800	1000	1200	
	6	-	-	
	220/460		220/460	220/460
	30, 100/200/500		100/200/500	100/200/500
≤ 0.1	≤ 0.1	≤ 0.1	≤ 0.1	≤ 0.1
0.1/0.4/1/2	0.1/0.4/1/2	0.1/0.4/1/2	-	-
0.5/1/1.5/2	0.5/1/1.5/2	0.5/1/1.5/2	-	-
37	65	85	85	85
50	85	125	125	125
100	100	75	-	-
А	А	А	-	-
2,500	2,500	2,500	2,500	2,500
500	500	500	500	500
	Thermal-magnetic	Thermal-magnetic		
	Electronic	Electronic		
•	•	•	•	•
•	•	•	•	•
•	•	•	-	-
•	•	•	-	-
•	•	•	-	-
•	•	•	-	-
•	•	•	-	-
•	•	•	-	-
•	•	•	-	-
•	•	•	-	-
•	•	•	-	-
•	•	•	-	-
•	•	•	-	-
•	•	•	-	-
	210×280×109	220×565×105		
11.5	11.5	11.5	27.1	27.1
-	-	-	-	-